PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220		
P016766WO	ACTION	as well	as, where applicable, item 5 below.		
International application No.	International filing date (day/mont	h/year)	(Earliest) Priority Date (day/month/year)		
PCT/GB2004/001549	08/04/2004		11/04/2003		
Applicant					
NEXTENDERS (INDIA) PRIVATE	E LIMITED				
This International Search Report has been according to Article 18. A copy is being tra			nority and is transmitted to the applicant		
This International Search Report consists	of a total of sh	eets.			
X It is also accompanied by	a copy of each prior art document o	cited in this	report.		
1. Basis of the report	international accept was corried ou	es the bes	vio ef the international analization in the		
	ess otherwise indicated under this i		sis of the international application in the		
The international this Authority (Ru		of a transla	ation of the international application furnished to		
b. With regard to any nucleo	otide and/or amino acid sequence	disclosed	in the international application, see Box No. I.		
2. Certain claims were fou	nd unsearchable (See Box II).				
3. Unity of invention is lace	3. Unity of invention is lacking (see Box III).				
4. With regard to the title,					
the text is approved as su	bmitted by the applicant.				
	hed by this Authority to read as follo				
SYSTEM AND METHOD FOR	AUTHENTICATING DOCUME	ENTS			
·					
5. With regard to the abstract,					
the text is approved as su	•	hin Assah mak	h. on it annual is Day to the 1977 annualisant		
			ty as it appears in Box No. IV. The applicant ch report, submit comments to this Authority.		
6. With regards to the drawings,					
a. the figure of the drawings to be p	oublished with the abstract is Figure	No. <u>2</u>			
X as suggested by	the applicant.				
	s Authority, because the applicant f	_	·		
	s Authority, because this figure bett	er characte	erizes the invention.		
b none of the figures is to b	e published with the abstract.				

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2004/001549

A. CLASSI IPC 7	H04L9/32		
According to	o International Patent Classification (IPC) or to both national clas	ssification and IPC	
	SEARCHED		
	ocumentation searched (classification system followed by classi	ification symbols)	
IPC 7	H04L		
Documental	tion searched other than minimum documentation to the extent t	that such documents are included in the fields s	earched
Electronic d	ata base consulted during the international search (name of date	ta base and, where practical, search terms used	1)
EPO-In	ternal, WPI Data, PAJ		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of th	ne relevant passages	Relevant to claim No.
Y	US 2002/026583 A1 (BROWN RICHA 28 February 2002 (2002-02-28) paragraphs '0079! - '0086!; fi	•	1-34
X		3 -7-7-7	35,36
Y	EP 1 081 890 A (NIPPON TELEGRA TELEPHONE) 7 March 2001 (2001-paragraphs '0031!, '0035! - '0042!; figure 1	1-34	
A	WO 97/12460 A (DOCUMENT AUTHEN SYSTEM) 3 April 1997 (1997-04-abstract; figures 7,8		1-36
Furt	her documents are listed in the continuation of box C.	χ Patent family members are listed	in annex.
° Special ca	itegories of cited documents	"T" later document published after the inte	emational filing date
consid	ent defining the general state of the lart which is not dered to be of particular relevance document but published on or after the international	or priority date and not in conflict with cited to understand the principle or the invention	the application but eory underlying the
filing o	date	*X* document of particular relevance; the cannot be considered novel or cannot	t be considered to
which citation docume	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	involve an inventive step when the do "Y" document of particular relevance; the cannot be considered to involve an indocument is combined with one or me	claimed invention ventive step when the
"P" docume	means ent published prior to the international filing date but han the priority date claimed	ments, such combination being obvio in the art. *&* document member of the same patent	
Date of the	actual completion of the international search	Date of mailing of the international sea	irch report
6	July 2004	14/07/2004	
Name and r	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tol. (121, 70) 240, 2040, Tr. 21, 651, app. pl.	Authorized officer	
	Tel. (+31~70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Cretaine, P	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2004/001549

	atent document d in search report		Publication date		Patent family member(s)	Publication date
US	2002026583	A1	28-02-2002	GB	2366470 A	06-03-2002
EP	1081890	A	07-03-2001	CA EP EP JP	2317139 A1 1081890 A2 1267517 A2 2001142398 A	01-03-2001 07-03-2001 18-12-2002 25-05-2001
WO	9712460	Α	03-04-1997	US AU AU BR CN CZ EP HU JP NO NZ PL TR US US US	5748738 A 714220 B2 7105896 A 9610720 A 2232170 A1 1202288 A 9800787 A3 0850523 A1 9802232 A2 123663 A 11512841 T 981170 A 318941 A 326075 A1 9800462 T1 6237096 B1 9712460 A1 6367013 B1 2004093493 A1 2001002485 A1	05-05-1998 23-12-1999 17-04-1997 21-12-1999 03-04-1997 16-12-1998 14-10-1998 01-07-1998 28-01-1999 10-03-2002 02-11-1999 13-05-1998 29-07-1999 17-08-1998 22-06-1998 22-06-1998 22-05-2001 03-04-1997 02-04-2002 13-05-2004 31-05-2001

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International filing date (day/month/year) Priority date (dayimonth/year) International application No. 08.04.2004 PCT/GB2004/001549 11.04.2003

1. This opinion contains indications relating to the following items:

International Patent Classification (IPC) or both national classification and IPC

NEXTENDERS (INDIA) PRIVATE LIMITED

	Box No. I	Basis of the opinion
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
Image: Control of the	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application

2. FURTHER ACTION

H04L9/32

Applicant

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Cretaine, P

Telephone No. +49 89 2399-8828



10/553067 JC09 Rec'd PCT/PTO 12 OCT 2005

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/001549

	Box N	o. I Basis of the opinion
		egard to the language, this opinion has been established on the basis of the international application in iguage in which it was field, unless otherwise indicated under this item.
	la	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search and 23.1(b)).
2.		egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. type	e of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
		in computer readable form
	c. time	e of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3 .	ha co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.

4. Additional comments:

	Box	No. II	Priority	and the second					
1. 🛭		The fol	lowing document h	as not bee	n furnished	j.			
		⊠	opy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).						
			translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)).						
						der the validity of the priority claim. This opinion has ion that the relevant date is the claimed priority date.			
		has be		ules 43 <i>bis</i> .	1 and 64.1	rity had been claimed due to the fact that the priority claim). Thus for the purposes of this opinion, the international the relevant date.			
		No. V	Beasoned state		er Rule 43	bis.1(a)(i) with regard to novelty, inventive step or			
						ns supporting such statement			
	Stat	ement							
	Nov	elty (N)		Yes:	Claims	1-34			
				No:	Claims	35,36			
	Inve	entive st	ten (IS)	Yes:	Claims				
			icp (ic)						
			10p (10)	No:	Claims	1-36			

Claims

No:

2. Citations and explanations

see separate sheet

Re Item V.

- 1 The following document is referred to in this communication:
 - D1: US 2002/026583 A1 (BROWN RICHARD ET AL) 28 February 2002 (2002-02-28)
 - D2: EP 1 081 890 A (NIPPON TELEGRAPH'&; TELEPHONE) 7 March 2001 (2001-03-07)
- 2 INDEPENDENT CLAIM 1
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not inventive in the sense of Article 33(3) PCT.
- 2.2 Document D1 discloses (the references in parenthesis applying to this document) a data processing system for distributing and authenticating documents from a plurality of parties ("sender", "sender's certificate") to a recipient data processing apparatus ("receiving fax machine"), the system comprising:
 - a plurality of documents distribution devices (figure 7, "fax machines") each being operable to generate an original hash value from the content of an electronic file containing a document to be distributed ("digest of the document created by the sender using a hash algorithm")
 - a data communications network ("communications network 158") operable to provide a facility to communicate each of the original hash values to the recipient data processing apparatus,
 - the recipient data processing apparatus being operable:
 - to receive the original hash values from each of the plurality of documents distribution devices via the communication network (figure 5; "the hash algorithm 84 is used to create a digest of the scanned document"),
 - wherein after a predetermined event ("document being scanned at 102 into the sending fax machine"), the plurality of document distribution devices are operable:
 - to communicate each of the respective electronic files to the recipient data processing apparatus ("a fax machine in a local bank that should only receive faxes from other remote branches of the same bank"),
 - the recipient data processing apparatus being operable:
 - to generate a comparative hash value from the content of the electronic file

containing the document received from each of the document distribution devices (column 9, lines 6-11),

- to determine whether or not the documents received by the recipient data processing apparatus have changed from a comparison of at least one of the original hash values and the comparative hash values (column 9, lines 12-16).
- 2.3 The differences between the subject-matter of claim 1 and the disclosure of D1 are that in claim 1, at the recipient device:
 - an original super hash value is generated from the hash values corresponding to several received documents and communicated to the distribution devices,
 - a comparative super hash value is generated from the comparative hash values
 - the comparative super hash and the original super hash are compared to determine whether or not the documents have changed.
- 2.4 These features solve the problem of providing each distribution device the assurance that none of the other distribution devices have changed their documents.
- 2.5 The feature of calculating a super hash value from hash values of documents is described in document D2 (see paragraphs 35,36: "unified digest"). Moreover the purpose of building such a super hash value in D2 is to prove that the plurality of documents existed together at a certain time (see D2, paragraph 42). Therefore this features provides in D2 the same advantages as in the present application. The skilled person would therefore regard it as a normal option to include this feature in the system described in document D1 in order to solve the problem posed.

3. INDEPENDENT CLAIM 12:

The only difference between the subject-matter of claim 12 and the disclosure of D1 is that the electronic document is transmitted by the document distribution device after its hash value. This simple modification of the system does not involve an inventive step.

4. INDEPENDENT CLAIM 19:

Claim 19 relates to a recipient data processing device which substantially contains the same technical features as the recipient device defined in the system of claim 1. Therefore claim 19 does not involve an inventive step.

5. INDEPENDENT CLAIM 26:

Claim 26 substantially contain the same features as claim 1 but in terms of a method claim. Claim 26 therefore does not involve an inventive step.

6. INDEPENDENT CLAIM 28:

Claim 28 substantially contain the same features as claim 12 but in terms of a method claim. Claim 28 therefore does not involve an inventive step.

7. INDEPENDENT CLAIM 30:

Claim 30 substantially contains the same technical features as claim 30. Claim 30 therefore does not involve an inventive step.

8. INDEPENDENT CLAIM 34:

Claim 34 contains substantially the same features as claim 1. Claim 34 therefore does not involve an inventive step.

9. INDEPENDENT CLAIMS 35 AND 36:

These claims do not contain any features which could assess novelty vis-à-vis D1, the references to the description and drawings being no technical features in themselves.

Remarks: Although claims 1 and 34, resp. claims 26 and 28 have been drafted as separate independent system claims, resp. method claims, they appear to relate effectively to the same subject-matter and to differ from each other only with in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/GB2004/001549

6 PCT.